

About IIRS

Indian Institute of Remote Sensing (IIRS), a unit of Indian Space Research Organisation (ISRO), is a premier institute for capacity building and research in the field of remote sensing and geoinformatics. Since its establishment in 1966, IIRS is a key player for training and capacity building in geospatial technology and its applications through training, education and research in Southeast Asia. The Institute has a multi-disciplinary and problem oriented research agenda focusing on developing land-ocean-atmosphere applications and understanding Earth's surface and subsurface processes using primarily the space-based technologies. The research programmes are intricately linked to overall goal of ISRO towards operationalisation of space-based services for national development.

About Workshop

The workshop on applications of satellite altimetry for inland water bodies is being organized which will provide an overview of advance remote sensing technique of altimetry and geospatial technology (RS & GIS) use for quantitative assessment and monitoring of inland water bodies. The main aim of this workshop is spread awareness about importance of satellite altimetry in monitoring the water level of inland water bodies, its use in reservoir sedimentation and hydrological modelling. It will provide platform to start an interaction between main stakeholders such as government agencies, academia, industry and NGO's for monitoring and management of water resources using satellite altimetry.

Workshop Outline

The workshop will cover following topics related to satellite altimetry.

- Introduction of Altimetry, its principles and future missions
- Monitoring spatio-temporal changes of surface water bodies
- Re-tracking algorithms for Inland water level estimation
- Altimetry techniques to retrieve hydrological variables
- Integrated approach of altimetry and hydrometric data based reservoir sedimentation and hydrological modelling
- Basin scale hydrological, water balance and flood forecasting studies using altimetry and modelling approach
- Demo on water level estimation using SARAL-ALTIKA data

Target Participants

The course is designed for professionals from Central / State Govt. / Private Organizations / NGO engaged in hydro-meteorological based regional and national projects; students and researchers aligned to research in satellite altimetry.

Expected Outcome

After completion of the workshop participants will be familiarized with the satellite altimetry and its applications for monitoring of lake, reservoir volume and water level, stage-discharge of rivers and hydrological modelling.

Workshop Registration

For workshop registration visit URL-
http://admissions.iirs.gov.in/altimeter_workshop2018

Workshop Venue & about Dehradun

The one day workshop will be conducted at campus of IIRS Dehradun. IIRS campus is about 6 km from Dehradun railway station and about 30 kms from Jolly Grant Airport Dehradun. Dehradun often called as Doon valley, is located at the base of Western Himalayas. It is one of the important educational hubs in India. Weather is moderate during March to May. Several important national organization/institutions are located in Dehradun.

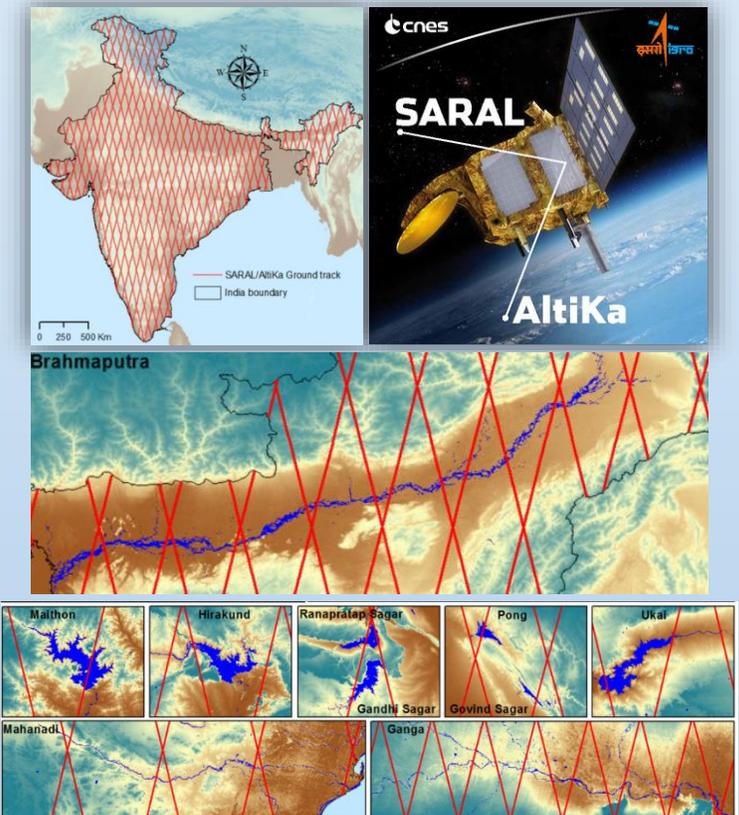
Contact Details

Dr. S. P. Aggarwal
Group Head,
WRD, IIRS Dehradun
Tel: 0135-2524162
Email: spa@iirs.gov.in

Dr. Praveen K. Thakur
Workshop Coordinator
WRD, IIRS Dehradun
Tel: 0135-2524166
Email: praveen@iirs.gov.in

One Day Workshop on Applications of Satellite Altimetry for Inland Waterbodies

May 30, 2018



Organised by

Indian Institute of Remote Sensing
Indian Space Research Organisation
Department of Space, Govt. of India
4 Kalidas Road, Dehradun 248001

www.iirs.gov.in